ALP PORCE BASE CONVERSION ACENT

AFCEE Cleanup Technology Workshop 2002

Co-Sponsored by: US Air Force US Air Force Base Conversion Agency US Defense Logistics Agency

AGENDA

4 - 7 Mar 2002 San Antonio, TX

Location: Brooks AFB and Marriott NW



http://www.hqafcee.brooks.af.mil/er/techworkshop/workshop.asp

MONDAY, 4	MAR 2002 – <i>OPTIONAL</i> BROOKS AFB – SO	CHOOL OF AEROSPACE MEDICINE					
TIME	GROUP A	GROUP B					
08:00	Subsurface Investigation / Conceptual Site Model	Computer Decision Tools for Decision Makers					
	Development – Field Demonstrations						
	MODERATOR: Jerry Hansen, AFCEE/ERT	MODERATOR: Jim Gonzales, AFCEE/ERT					
	Investigative Findings of the SCAPS: Moron AB, Spain Jim Campbell, USACE, Kansas City District	AFCEE Computer Design Tools: BIOCHLOR, BIOSOURCE, and BIOPLUME III Chuck Newell, GSI					
	Tracked Geoprobe Steve Adamek, Dakota Technologies	Modeling Natural Attenuation Processes Using BIOCHLOR Carol Aziz, GSI					
	Innovative Subsurface Sensors Steve Adamek, Dakota Technologies	BIOSOURCE – Source Attenuation Decision Support System Chuck Newell, GSI and Sharla Farhat, GSI					
	Specialized Field Analytical Methods Frank Chapelle, USGS	BIOPLUME III – Natural Attenuation Decision Support System Chuck Newell, GSI					
	Direct Sampling Ion Trap Mass Spectrometry Javier Santillan, AFCEE/ERT and Rob Smith, ORNL						
	Diffusion Samplers Manish Joshi, EarthTech						
12:00 – 13:00	LUNCH						
13:10	Subsurface Investigation / Conceptual Site Model Development – Field Demonstrations	Long Term Monitoring and Wellfield Optimization					
	MODERATOR: Jerry Hansen, AFCEE/ERT	MODERATOR: Phil Hunter, AFCEE/ERC					
	Field Sampling and QA/QC Techniques (Field) Don Kampbell, US EPA	Monitoring and Remediation Optimization System (MAROS) Julia Aziz, GSI					
	Pros and Cons of Field and Laboratory Analyses for Natural Attenuation Parameters Bruce Henry, Parsons Engineering Science	Geostatistical Optimization at AFP06 Using GTS Kirk Cameron, MacStat Consulting Limited					
	Site Characterization Initiative – EPA Technology Innovation Office (Classroom) Dan Powell, US EPA	Procedures for Optimizing Long-Term Monitoring Programs John Anthony and Carolyn Nobel, Parsons Engineering Science					
	Analytical Strategy for the RCRA Program: A Performance-Based Approach Barry Lesnik, US EPA	Geostatistical Methods to Reduce Groundwater Monitoring Costs Jan Kool, Hydrogeologic, Inc.					

TUESDAY, 5	MAR 2002 - AM SESSION MARRIOTT NW – SAM HOUSTON BALLROOM
TIME	PLENARY SESSION
08:00 – 08:10	Opening Remarks Mr. Gary Erickson, Director, Air Force Center for Environmental Excellence
08:10 - 08:30	Conference Overview and Technology Program Review Maj Jeff Cornell, AFCEE/ERT
08:30 - 09:00	Policy Keynote: AF Cleanup Program Overview and Hot Topics Lt Col David Roe, AF/ILEVR
09:00 - 09:35	Science Keynote: How Many DNAPL Sites have We Cleaned Up? Dr. Rob Hinchee, Battelle Memorial Institute
09:35 – 10:10	Engineering Keynote: What Works, What Doesn't and How to Tell the Difference Dr. Ross N. Miller, Parsons Engineering Science
10:10 – 10:45	Hot Topics Keynote: What do We Know About Trichloroethylene? Dr. John DeSesso, Mitretek Systems
10:45 – 11:15	Meet the New Administration Keynote Honorable Maureen T. Koetz, SAF/IEE
11:15 – 11:30	Questions and Answers
11:30 – 13:00	LUNCH

TUESDAY, 5	MAR 2	2002 – PM SESSION		MARRIOTT NW – SAM HO	DUSTO	ON BALLROOM
TIME	SALO	N A	SALON B		SALON C	
13:00	Enhanced In Situ Bioremediation of Chlorinated Solvents (Part A)		Hot Topics I (Part A)		Phytotechnologies (Part A)	
	MODERATOR: Jim Gonzales,		MODERATOR: Erica Becvar,		MODERATOR: Rafael Vazquez,	
	AFCEE/ERT		AFCEE/ERT		AFCEE/ERT	
	13:00 – 13:30	Current State of the Practice Jim Gonzales, AFCEE/ERT	13:00 – 13:20	TCE Health Risk Assessment: Toxicity Evaluation Brian Howard, AFIERA	13:00 – 13:30	Use of Plants in Environmental Remediation: Limiting Factors Victor Hauser, Mitretek Systems
	13:30 – 14:00	Candidate Site Screening, Substrate Distribution, and Pilot Testing Procedures Patrick E. Haas, Mitretek Systems	13:20 – 13:40	TCE Health Risk Assessment: Impact of Proposed TCE Regulatory Limits Tasha Pravecek, AFCEE/ERC	13:30 – 14:00	Protocol for Controlling Groundwater Movement by Phytostabilization Marc Gill, Mitretek Systems
	14:00 – 14:30	Enhanced Reductive Dechlorination via Vegetable Oil Injection Todd H. Wiedemeier, Parsons Engineering Science	13:50 – 14:10	MTBE and Gasoline Oxygenates: Regulatory and Technical Update Bruce Bauman, American Petroleum Institute	14:00 – 14:30	Phytoremediation, A State Perspective Bob Mueller, NJ DEP
			14:10 – 14:30	MTBE: Mixing Techniques to Effect In Situ Bioremediation Mark Goltz, AFIT		
14:30 – 14:45				BREAK		
14:45	15:00 – 15:30	Anaerobic Bioremediation Using Edible Robert Borden, NCSU/Solutions Environmental	14:40 – 15:30	Selecting Cleanup Technologies: Soil and Groundwater Containing Explosive Residues Wayne Sisk, US AEC	14:45 – 15:00	Phytotechnology Applications: The Industrial Perspective Dave Tsao, Group Environmental Management Company (A BP-Affiliated Company)
	15:30 – 16:00	Molasses In Situ Reactive Zone Update: A Field-Pilot Demonstration funded by AFCEE/ESTCP David Liles, ARCADIS	15:40 – 16:10	Perchlorate: Biological and Ion Exchange Treatment Technology Ed Coppola, Applied Research Associates	15:10 – 15:45	Large Scale Tree Planting Techniques at Air Force Sites Bill Plaehn, Parsons Engineering Science
	16:00 – 16:30	Results from Direct Hydrogen Delivery Field Tests Chuck Newell, GSI	16:10 – 16:50	Perchlorate: Bioremediation of Perchlorate in Groundwater and Soil Paul Togna, Envirogen		
17:00		WO	RKSH	OP ADJOURNS FOR THE	DAY	

WEDNESDA	Y, 6 M	AR 2002 – AM SESSION	١	MARRIOTT NW – SAM HOU	JSTON	I BALLROOM		
TIME	SALO		SALON B		SALON C			
08:30 – 09:15	Enhanced In Situ Bioremediation of Chlorinated Solvents (Part B)		Hot Topics II (Part B)		Phytotechnologies (Part B)			
		RATOR: Jim Gonzales,	MODERATOR: Erica Becvar,			MODERATOR: Rafael Vazquez,		
	AFCEE		AFCEE/ERT		AFCEE/ERT			
	08:30 – 09:00	Permeable Reactive Biowall Construction and Performance Case Study Phil Cork, Offutt AFB, NE	08:30 – 08:50	Natural and Active Remediation of MTBE Frank Chapelle, USGS	08:30 – 08:55	Alternative Landfill Cover Concepts and Application Vic Hauser, Mitretek Systems		
	09:00 – 09:30	Field Performance Summary: Lactate Addition Kent Sorenson, Northwind Environmental	08:50 – 09:15	MTBE: Bioaugmentation Field Trials and Other Treatment Techniques Cristin Bruce, Arizona State University	08:55 – 09:20	Tools for Landfill Cover Selection and Construction Rafael Vazquez, AFCEE/ERT		
09:30 - 09:45				BREAK				
09:45	10:00 – 10:30	Substrate Selection: ORC/HRC/BIOX/Veg Oil Javier Santillan, HQ AFCEE/ERT	09:45 – 10:10	Explosives in Groundwater at US Army Facilities: An Overview Wayne Sisk, US AEC	09:35 – 10:05	Building an Integrated GIS Program at Aviano AB Gary Bergman, AFCEE/ERD		
		Bruce Henry, Parsons Engineering Science						
	10:30 – 11:00	Single-Well, Push-Pull Test Protocols for Evaluating Anaerobic and Aerobic Transformations of Chlorinated Solvents Jonathan Istok, Oregon State University	10:10 – 10:30	Use of Snow-Covered Ranges to Estimate the Amounts of Residues Produced by High-Order Detonations Marianne Walsh, CRREL	10:05 – 10:40	In Situ Chemical Oxidation of TCE Source Area Coupled with Boundary Control Pump and Treat Daphne Williams, IT Corporation and Carl Lanz, Moody AFB		
	11:00 – 11:30	Bioaugmentation: Where, When, and How? Guy Sewell, Sewell Environmental	10:50 – 11:10	Perchlorate: Historical Background Erica Becvar, AFCEE/ERT	10:45 – 11:15	Keesler AFB Eco-risk Optimization Lisa Noble, Keesler AFB		
			11:10 – 11:30	Perchlorate: Potential for Occurrence in the United States Ed Coppola, Applied Research Associates				
11:30 – 13:00	LUNCH							

WEDNESDA	Y, 6 M	AR 2002 – PM SESSION		MARRIOTT NW – SAM HO	USTO	N BALLROOM		
TIME	SALON A		SALON B		SALON C			
13:00 – 14:15	Optimization Technology		DNAPL Source Zone Removal		Technology-Critical Updates			
				Challenges				
	MODERATOR: Javier Santillan, AFCEE/ERT		MODERATOR: Kevin Thomas, AFCEE/ERB		MODERATOR: Jerry Hansen,			
					AFCEE/ERT			
	13:00 – 13:45	Passive Diffusion Bag Sampler Protocol, Training, and Regulatory Considerations Don Vroblesky, USGS	13:00 – 13:45	State of the Science Tom Sale, Colorado State University	13:00 – 13:45	Bioventing Site Closures Doug Downey, Parsons Engineering Science		
	13:55 – 14:20	Alternate and New Approaches in Passive Sampling Technology Don Vroblesky, USGS	13:55 – 14:20	DoD and AFCEE Source Zone Removal Decision Support System Development Major Jeff Cornell, AFCEE/ERT	13:45 – 14:20	Regulatory Implementation of Natural Attenuation: Texas Risk Reduction Program (TRRP 33) Charles Stone, Texas Natural Resource Conservation Commission (TNRCC)		
14:20 – 14:45				BREAK				
14:45 – 17:00	14:45 – 15:30	SVE Optimization Jim Gonzales, AFCEE/ERT and Doug Downey, Parsons Engineering Science	14:45 – 15:30	In Situ Oxidation – Results from Multiple DoD Sites Marvin Unger, RETEC/SERDP/ESTCP	14:45 – 15:30	AFCEE/ERT Multi-site Long-term Plume Comparison Study		
	15:40 – 16:05	Tools to Optimize Monitoring Well Networks Phil Hunter, AFCEE/ERC	15:30 – 16:15	Ground Water Circulation Well Technology Evaluation John Hicks, Parsons Engineering Science	15:30 – 16:15	LNAPL Weathering and Risk Bruce Henry, Parsons Engineering Science		
	16:05 – 16:30	Turning Off a Pump-and-Treat System John Anthony, Parsons Engineering Science			16:15 – 17:00	Observed vs. Predicted Natural Attenuation Rates Bruce Henry, Parsons Engineering Science		
17:00	WORKSHOP ADJOURNS FOR THE DAY							

THURSDAY,	7 MAR	R 2002 – AM SESSION		MARRIOTT NW – SAM HO	USTO	N BALLROOM	
TIME	SALO	N A	SALO	NB	SALON C		
08:30 - 09:15	Remedial Process Optimization		Sourc	Source Zone Removal Challenges		COM Success Stories /	
	(Part A)				Partnerships		
	MODERATOR: Javier Santillan,		MODERATOR: Kevin Thomas,		MODERATOR: Jeff Cornell,		
	AFCEE/ERT		AFCEE/ERB		AFCEE/ERT		
	08:30 – 08:45	Remedial Process Optimization (RPO) Javier M. Santillan, AFCEE/ERT	08:30 – 09:00	Air Force Plant #4 Six-Phase Heating Case Study Don Ficklen, AFCEE/ERD	08:30 – 09:00	Federal Roundtable and Other Partnering for Technology Development John Kingscott, US EPA-TIO	
	08:45 – 09:15	Updated AFCEE/DLA RPO Handbook Doug Downey, Parsons Engineering Science	09:00 – 09:45	The Great Source Zone Removal Debate: A Summary of 4 National Expert Panels Hans Stroo, RETEC/ SERDP/ESTCP	09:00 - 09:30	SERDP/ESTCP, the DUSD(IE) Environmental Technology Program Marvin Unger, RETEC/SERDP/ESTCP	
	09:15 – 09:40	RPO – How-To: RPO Implementation Manish Joshi, EarthTech					
09:45 – 10:00				BREAK			
10:00 – 11:30	10:00 – 10:25	Maximizing Performance and Cost Effectiveness-AF Case Studies Pete Guest, Parsons Engineering Science	10:00 – 10:30	From Skimming to Steaming: The Williams AFB Case Study Kevin Thomas, AFCEE/ERB	10:00 – 10:30	Interstate Technology Regulatory Cooperation (ITRC) Bob Mueller, NJ DEP	
	10:45 – 11:00	Alaska Case Studies: Eielson AFB RPO from the Installation's Perspective Mike Raabe, Eielson AFB, AK	10:30 – 11:00	The Role of Bioremedi ation in Source Zone Treatment Guy Sewell, Sewell Environmental	10:30 – 11:00	Shutting Down a Pump and Treat at AFP4: Making the Technical Argument George Walters, ASC/ENVR	
	11:00 – 11:15	King Salmon Alaska – Remedial Process Optimization Dave Hertzog, King Salmon AFB					
11:30 – 13:00				LUNCH			

	/, 7 MAR 2002 – PM SESSION			MARRIOTT NW – SAM HO			
TIME 13:00 – 15:15	SALON A Remedial Process Optimization (Part B)		SALON B Hot Topics (Part C): Environmental Restoration and UXO		SALON C Project Management Focus		
	MODE	RATOR: Dan Welch, DLA	MODERATOR: Jon Haliscak, AFCEE/EQ		MODERATOR: Henry Thompson, ANG/CEVR		
	13:00 – 13:30	The Road to Operating Properly and Successfully (OPS), 5-Year Review, and Closure Through RPO Dan Welch, HQ DLA	13:00 – 13:40	UXO / Range Rule / Munitions Rule Policy Update Ricky Cox, AF/ILEVR	13:00 – 13:20	GRASP – Example of Performance- Based Contracting Henry Thompson, ANG/CEVR	
	13:50 – 14:30	DLA RPO Case Studies Kinzie Gordon, Parsons Engineering Science	13:40 – 14:20	Technical Requirements of UXO Project Management Douglas Murray, NAVFAC –EFANW	13:20 – 13:40	AFCEE Performance-Based Initiatives Cesar Silva, AFCEE/ERB	
	14:30 – 15:05	Pump and Treat/Soil Vapor Extraction System Optimization Case Study Graham Sharpe, URS	14:20 – 15:00	HQ AFSC Perspective: UXO Policies and Practices Col Daniel Tompkins, HQ AFSC	13:40 – 14:00	Contracting Perspective Keith Matowitz, AFCEE/PKVC	
					14:00 – 14:30	Eaker AFB Performance Based Cleanup Contract (PBC²) Janice Blake, AFCEE/ERB	
15:15 – 15:30				BREAK			
15:30 – 17:00	0 CLOSING SESSION						
	EXPERT PANEL DISCUSSION: THE SUCCESSFUL END OF THE CLEANUP PROGRAM – WHEN? HOW?						
	MODERATOR: Dr. John T. Wilson, USEPA Kerr Environmental Research Center						
	PANEL MEMBERS: Dr. Tom Sale, Dr. Ross N. Miller, Mr. Jerry Hansen, Dr. Frank Chapelle, Dr. Dan Casagrande						